

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1 (Currently Amended): A paint composition having far-infrared ~~radioactivity~~~~emissivity~~ and antibiotic activity, comprising a thermosetting resin, 9-60 parts by weight of ceramic powder and 0.2-4.0 parts by weight of phosphoric acid, based on 100 parts by weight of the thermosetting resin.

2 (Original): The paint composition according to claim 1, wherein the thermosetting resin comprises at least one resin selected from the group consisting of polyester resin, silicone modified polyester resin and acryl resin, each of which has a molecular weight of 10,000 or more.

3 (Original): The paint composition according to claim 2, wherein the thermosetting resin is a polyester resin or an acryl resin having a molecular weight of 10,000 or more.

4 (Original): The paint composition according to claim 2, wherein the thermosetting resin has a molecular weight of 10,000-20,000.

5 (Original): The paint composition according to claim 1, wherein the ceramic powder comprises at least one selected from the group consisting of CaCO_3 , ZnO , and Al_2O_3 .

6 (Original): The paint composition according to claim 5, wherein the ceramic powder comprises 3-20 parts by weight of CaCO_3 , 3-20 parts by weight of ZnO , and 3-20 parts by weight of Al_2O_3 , based on 100 parts by weight of the thermosetting resin.

7 (Original): The paint composition according to claim 6, wherein the ceramic powder comprises 5-10 parts by weight of CaCO_3 , 5-10 parts by weight of ZnO , and 5-10 parts by weight of Al_2O_3 , based on 100 parts by weight of the thermosetting resin.

8 (Original): The paint composition according to claim 5, wherein the ceramic powder further comprises 3-20 parts by weight of Al-Zn ceramic powder, based on 100 parts by weight of the thermosetting resin.

9 (Original): The paint composition according to claim 1, further comprising a coloring pigment, a dispersing agent, a leveling agent and/or a thickening agent.

10 (Original): The paint composition according to claim 9, wherein at least one additive selected from the group consisting of the dispersing agent, the leveling agent and the thickening agent is used in an amount of 1.0-7.0 parts by weight, based on 100 parts by weight of the thermosetting resin.

11 (Original): The paint composition according to claim 9, wherein the coloring pigment is used in an amount of 10-80 parts by weight, based on 100 parts by weight of the thermosetting resin.

12 (Currently Amended): The paint composition according to ~~any one of claims 1 to 11~~claim 1, further comprising 0.01-1.0 parts by weight of a silane compound, based on 100 parts by weight of the thermosetting resin.

13 (Original): The paint composition according to claim 12, wherein the silane compound comprises at least one selected from the group consisting of mercapto-propyl-trimethoxy silane, 3-aminopropyltriethoxy silane, 3-trimethoxysilylpropyl methacrylate, and 3-aminopropylmethoxy silane.

14 (Currently Amended): The paint composition according to ~~any one of claims 1 to 11~~claim 1, further comprising 2-6 parts by weight of a curing catalyst, based on 100 parts by weight of the thermosetting resin.

15 (Original): The paint composition according to claim 12, further comprising 2-6 parts by weight of a curing catalyst, based on 100 parts by weight of the thermosetting resin.

16 (Original): The paint composition according to claim 14, wherein the curing catalyst is dodecylbenzenesulfonic acid.

17 (Original): The paint composition according to claim 15, wherein the curing catalyst is dodecylbenzenesulfonic acid.

18 (Currently Amended): A precoated metal sheet coated with the paint composition of ~~any one of claims 1 to 11~~claim 1.

19 (Original): A precoated metal sheet coated with the paint composition of claim 12.

20 (Original): A precoated metal sheet coated with the paint composition of claim 14.

21 (Original): A precoated metal sheet coated with the paint composition of claim 15.

22 (Original): The precoated metal sheet according to claim 18, wherein the paint composition is applied to a dry film thickness of 5-25 μm .

23 (Original): The precoated metal sheet according to claim 19, wherein the paint composition is applied to a dry film thickness of 5-25 μm .

24 (Original): The precoated metal sheet according to claim 20, wherein the paint composition is applied to a dry film thickness of 5-25 μm .

25 (Original): The precoated metal sheet according to claim 21, wherein the paint composition is applied to a dry film thickness of 5-25 μm .

26 (Original): The precoated metal sheet according to claim 18, wherein the metal sheet is used for home appliances.

27 (Original): The precoated metal sheet according to claim 19, wherein the metal sheet is used for home appliances.

28 (Original): The precoated metal sheet according to claim 20, wherein the metal sheet is used for home appliances.

29 (Original): The precoated metal sheet according to claim 21, wherein the metal sheet is used for home appliances.